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## **APPENDIX D**

### **Surface Area, Population, and Average Daily Vehicle Miles Traveled**

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## Introduction

This appendix provides information on the square mile surface area, population, and average number of vehicle miles traveled (VMT) each day in California. The trend data for population and daily VMT cover the period 1980 through 2020. Data are listed for each air basin, for each county within each air basin, and for the State as a whole. In cases where a county is split between two or more air basins, the data reflect only that portion of the county within the respective air basin. It is important to note that the average daily VMT listed in the following tables has been divided by 1000.

Surface areas were calculated based on United States Census Bureau data from the 2000 Census. The surface areas shown reflect land portions of air basins only and exclude water bodies, including bays, lakes, and rivers.

The population data were derived from reports developed by the California Department of Finance (DOF), Demographic Research Unit. Split county fractions for 1990 and 2000 were derived using census 1990 and 2000 data. County and air basin fractions for years not listed above were interpolated. The population data do not reflect any adjustment for the estimated census undercount.

The estimates of daily vehicle miles traveled (VMT) for the years 1980 through 2020 are found in ARB's revised motor vehicle emissions inventory model, EMFAC2002 version 2.2 (refer to [www.arb.ca.gov/msei/msei.htm](http://www.arb.ca.gov/msei/msei.htm)). The VMT estimates have been revised from those published in last year's Almanac, based on changes in vehicle population, mileage accrual rates, and the data provided by regional transportation planning agencies (RTPAs). For recent calendar years, the VMT estimates in large urbanized areas are provided by RTPAs as an output of their travel demand models. For historical

years (pre-1999), the VMT is calculated as the product of vehicle population backcast from Department of Motor Vehicles data and mileage accrual rates (annual miles traveled by type and age of vehicle) calculated from the Bureau of Automotive Repair database for the Smog Check program. In this case, lower estimates of vehicle population and lower mileage accrual rates, along with subtle changes in the vehicle age distribution, combine to generate lower VMT estimates for all but the most recent years. More detailed information about the methodologies used in developing both the population and VMT trends is available from the ARB staff at (916) 322-7062.

## California

### *Surface Area = 155959 square miles*

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	23781900	26402300	29828585	31711255	34036350	37473100	40262100	42711100	45821800
Avg. Daily VMT <sub>(1000s)</sub>	389107	517683	677171	731207	796075	872885	957360	1032915	1109515

Table D-1

## ***Great Basin Valleys Air Basin***

***Surface Area = 13986 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	27700	27900	29390	30870	32200	34300	36000	37600	39400
Avg. Daily VMT <sub>(1000s)</sub>	687	763	935	899	937	1093	1310	1496	1669

Table D-2

## ***Alpine County***

***Surface Area = 739 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	1100	1100	1090	1170	1200	1300	1400	1600	1700
Avg. Daily VMT <sub>(1000s)</sub>	26	27	36	37	41	47	55	62	69

Table D-3

## ***Inyo County***

***Surface Area = 10203 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	17900	18000	18200	18300	18100	18800	19400	20000	20700
Avg. Daily VMT <sub>(1000s)</sub>	404	418	547	536	565	656	778	875	963

Table D-4

## ***Mono County***

***Surface Area = 3044 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	8700	8800	10100	11400	12900	14200	15200	16000	17000
Avg. Daily VMT <sub>(1000s)</sub>	257	318	352	326	331	390	477	559	637

Table D-5

## ***Lake County Air Basin***

***Surface Area = 1258 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	36800	45600	51000	56600	58600	69200	77600	84400	93000
Avg. Daily VMT <sub>(1000s)</sub>	807	1090	1276	1495	1545	1825	2236	2686	3128

Table D-6

**Lake Tahoe Air Basin****Surface Area = 224 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	36200	36200	39400	43700	46700	55300	62800	69000	75000
Avg. Daily VMT <sub>(1000s)</sub>	600	695	856	1024	1082	1245	1484	1718	1935

Table D-7

**El Dorado County****Surface Area = 157 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	27700	27500	30000	32800	34500	40700	46200	50700	55100
Avg. Daily VMT <sub>(1000s)</sub>	418	447	535	625	643	738	887	1046	1187

Table D-8

A portion of El Dorado County lies within the Mountain Counties Air Basin.

**Placer County****Surface Area = 66 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	8500	8700	9400	10900	12200	14600	16600	18300	19900
Avg. Daily VMT <sub>(1000s)</sub>	182	248	321	399	439	507	597	672	748

Table D-9

Portions of Placer County lie within the Mountain Counties and Sacramento Valley Air Basins.

**Mojave Desert Air Basin****Surface Area = 27287 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	357400	485700	676400	749300	820700	921200	1012700	1103700	1217700
Avg. Daily VMT <sub>(1000s)</sub>	5320	9087	18237	20231	22576	27466	32784	38533	44686

Table D-10

**Kern County****Surface Area = 3786 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	82600	96300	111400	115400	112900	130700	147700	164900	184500
Avg. Daily VMT <sub>(1000s)</sub>	1672	2473	3218	3607	4022	5018	6201	7639	8724

Table D-11

A portion of Kern County lies within the San Joaquin Valley Air Basin.

**Los Angeles County****Surface Area = 1522 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	97500	160500	231300	262100	300200	319300	333000	344900	363800
Avg. Daily VMT <sub>(1000s)</sub>	1982	3240	6300	6147	6567	8132	9933	11940	14333

Table D-12

A portion of Los Angeles County lies within the South Coast Air Basin.

**Riverside County****Surface Area = 3054 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	10400	13100	18500	22200	25800	31000	35900	40900	46800
Avg. Daily VMT <sub>(1000s)</sub>	73	123	245	322	390	455	517	579	640

Table D-13

Portions of Riverside County lie within the Salton Sea and South Coast Air Basins.

**San Bernardino County****Surface Area = 18923 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	166900	215800	315200	349600	381800	440200	496100	553000	622600
Avg. Daily VMT <sub>(1000s)</sub>	1593	3251	8474	10155	11597	13861	16133	18375	20989

Table D-14

A portion of San Bernardino County lies within the South Coast Air Basin.

## **Mountain Counties Air Basin**

**Surface Area = 12226 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	229600	272800	345920	385760	410550	471900	522200	561900	599500
Avg. Daily VMT <sub>(1000s)</sub>	5217	6739	9171	10431	11084	13252	15639	17882	20135

Table D-15

## **Amador County**

**Surface Area = 593 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	19500	22200	30450	33400	35300	37600	39300	40300	41300
Avg. Daily VMT <sub>(1000s)</sub>	565	700	983	1127	1149	1468	1712	1927	2257

Table D-16

## **Calaveras County**

**Surface Area = 1020 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	20900	25000	32450	38350	40700	47800	53400	57900	62200
Avg. Daily VMT <sub>(1000s)</sub>	569	689	985	1172	1209	1542	2016	2544	3132

Table D-17

## **El Dorado County**

**Surface Area = 1553 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	58800	71600	97300	112100	123800	146300	165800	182200	197800
Avg. Daily VMT <sub>(1000s)</sub>	1230	1661	2204	2685	2874	3386	3780	4156	4413

Table D-18

A portion of El Dorado County lies within the Lake Tahoe Air Basin.

## **Mariposa County**

**Surface Area = 1451 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	11200	12500	14400	16450	17050	19600	21500	23000	24300
Avg. Daily VMT <sub>(1000s)</sub>	264	310	449	503	487	570	691	797	903

Table D-19

## **Nevada County**

**Surface Area = 958 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	52500	64700	79000	87100	92300	106300	117300	125600	133200
Avg. Daily VMT <sub>(1000s)</sub>	1117	1582	2062	2273	2434	2869	3456	3963	4492

Table D-20

## **Placer County**

**Surface Area = 908 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	12000	15100	20500	21800	22200	26500	30200	33200	36200
Avg. Daily VMT <sub>(1000s)</sub>	237	344	412	504	746	918	1034	1169	1251

Table D-21

Portions of Placer County lie within the Lake Tahoe and Sacramento Valley Air Basins.

## **Plumas County**

**Surface Area = 2553 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	17400	18600	19800	20800	20800	21900	22700	23100	23500
Avg. Daily VMT <sub>(1000s)</sub>	350	403	562	615	667	736	818	863	899

Table D-22

## **Sierra County**

**Surface Area = 953 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	3100	3200	3320	3560	3600	3700	3800	3800	3800
Avg. Daily VMT <sub>(1000s)</sub>	68	77	100	92	99	109	122	130	136

Table D-23

## **Tuolumne County**

**Surface Area = 2235 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	34200	39900	48700	52200	54800	62200	68200	72800	77200
Avg. Daily VMT <sub>(1000s)</sub>	817	973	1414	1460	1419	1654	2010	2333	2652

Table D-24

## ***North Central Coast Air Basin***

***Surface Area = 5156 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	506400	565800	623000	645950	712600	798400	877000	954700	1048100
Avg. Daily VMT <sub>(1000s)</sub>	9059	12267	16058	16656	18324	19953	21723	23255	24988

Table D-25

## ***Monterey County***

***Surface Area = 3321 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	292100	327400	356800	360400	402400	450300	493100	535700	590700
Avg. Daily VMT <sub>(1000s)</sub>	5757	7645	9911	10123	11346	12276	13237	14185	15250

Table D-26

## ***San Benito County***

***Surface Area = 1389 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	25200	29900	36900	44350	53800	63600	72000	79100	86800
Avg. Daily VMT <sub>(1000s)</sub>	579	830	1188	1353	1498	1711	1983	2235	2518

Table D-27

## ***Santa Cruz County***

***Surface Area = 445 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	189100	208500	229300	241200	256400	284500	311900	339900	370600
Avg. Daily VMT <sub>(1000s)</sub>	2723	3792	4959	5180	5480	5966	6503	6835	7220

Table D-28

## **North Coast Air Basin**

**Surface Area = 12339 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	244400	258200	286750	303250	310800	336900	357500	373900	390900
Avg. Daily VMT <sub>(1000s)</sub>	5480	6531	8691	9098	9210	10258	11726	12868	13942

Table D-29

## **Del Norte County**

**Surface Area = 1008 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	18300	19100	24450	27850	27600	31500	34500	36800	39000
Avg. Daily VMT <sub>(1000s)</sub>	413	406	575	594	565	676	829	997	1172

Table D-30

## **Humboldt County**

**Surface Area = 3572 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	108900	110600	119400	125000	126500	132500	136500	139200	142100
Avg. Daily VMT <sub>(1000s)</sub>	2111	2418	3152	3207	3194	3482	3927	4224	4452

Table D-31

## **Mendocino County**

**Surface Area = 3508 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	67000	73400	80600	83800	86700	95500	103200	109700	116700
Avg. Daily VMT <sub>(1000s)</sub>	1315	1549	2142	2302	2363	2709	3198	3593	3960

Table D-32

## **Sonoma County**

**Surface Area = 1071 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	38200	42300	49300	53100	57000	63600	68900	73200	77700
Avg. Daily VMT <sub>(1000s)</sub>	1392	1886	2452	2638	2734	2998	3313	3524	3762

Table D-33

A portion of Sonoma County lies within the San Francisco Bay Area Air Basin.

## **Trinity County**

**Surface Area = 3179 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	12000	12800	13000	13500	13000	13800	14400	15000	15400
Avg. Daily VMT <sub>(1000s)</sub>	249	272	370	357	354	393	459	530	596

Table D-34

**Northeast Plateau Air Basin****Surface Area = 14788 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	70500	75200	81025	83875	88050	97100	103800	109300	114900
Avg. Daily VMT <sub>(1000s)</sub>	1507	1707	2291	2518	2251	2521	2897	3200	3472

Table D-35

**Lassen County****Surface Area = 4557 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	21800	24300	27700	28900	34150	39800	43400	46400	49500
Avg. Daily VMT <sub>(1000s)</sub>	397	450	609	721	720	813	931	1019	1099

Table D-36

**Modoc County****Surface Area = 3944 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	8700	9400	9675	9975	9400	10100	10700	11100	11500
Avg. Daily VMT <sub>(1000s)</sub>	184	197	241	259	250	296	352	408	472

Table D-37

**Siskiyou County****Surface Area = 6287 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	40000	41500	43650	45000	44500	47200	49700	51800	53900
Avg. Daily VMT <sub>(1000s)</sub>	926	1060	1441	1538	1281	1412	1614	1773	1901

Table D-38

**Sacramento Valley Air Basin****Surface Area = 14994 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	1500900	1688200	1977600	2155550	2344950	2647200	2904700	3128100	3374700
Avg. Daily VMT <sub>(1000s)</sub>	27881	35762	47540	52178	54681	62630	70184	77831	84078

Table D-39

**Butte County****Surface Area = 1639 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	144900	161600	183200	197500	203900	235000	259800	281200	308900
Avg. Daily VMT <sub>(1000s)</sub>	2525	3140	4320	4549	4496	4996	5762	6456	7138

Table D-40

**Colusa County****Surface Area = 1151 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	12900	14600	16300	17850	18900	24200	29200	33900	39200
Avg. Daily VMT <sub>(1000s)</sub>	362	441	531	547	550	636	751	855	959

Table D-41

**Glenn County****Surface Area = 1314 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	21500	22900	24850	26400	26550	31800	36700	41300	46500
Avg. Daily VMT <sub>(1000s)</sub>	522	651	725	772	685	789	947	1099	1252

Table D-42

**Placer County****Surface Area = 429 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	97900	114900	145000	179000	215200	257300	292500	321900	350800
Avg. Daily VMT <sub>(1000s)</sub>	2231	2783	3736	4672	6034	7428	8373	9461	10055

Table D-43 Portions of Placer County lie within the Lake Tahoe and Mountain Counties Air Basins.

**Sacramento County**  
*Surface Area = 966 square miles*

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	787900	890700	1046900	1120700	1229700	1368500	1486500	1591100	1707600
Avg. Daily VMT <sub>(1000s)</sub>	14618	18996	24774	27057	27090	30519	33091	35567	37370

Table D-44

**Shasta County**  
*Surface Area = 3785 square miles*

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	116600	129100	148000	159700	164400	185700	203500	217500	231000
Avg. Daily VMT <sub>(1000s)</sub>	2190	2728	3802	4009	4068	4633	5504	6192	6787

Table D-45

**Solano County**  
*Surface Area = 511 square miles*

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	63800	76000	98300	109100	121300	136300	149000	160000	171700
Avg. Daily VMT <sub>(1000s)</sub>	961	1258	2085	2334	2703	3152	3522	4150	4870

Table D-46

A portion of Solano County lies within the San Francisco Bay Area Air Basin.

**Sutter County**  
*Surface Area = 603 square miles*

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	52600	57800	64800	74200	79400	90400	99600	107200	115600
Avg. Daily	895	1164	1616	1769	1921	2333	2922	3534	4196

Table D-47

**Tehama County**  
*Surface Area = 2951 square miles*

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	39100	44000	49850	54600	56000	63400	71500	78200	85100
Avg. Daily VMT <sub>(1000s)</sub>	714	823	1295	1325	1279	1427	1658	1825	1959

Table D-48

**Yolo County**  
*Surface Area = 1013 square miles*

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	113900	123500	141800	154600	169200	188600	205000	219500	236400
Avg. Daily VMT <sub>(1000s)</sub>	2200	2932	3519	3924	4577	5206	5812	6535	7007

Table D-49

**Yuba County**  
*Surface Area = 631 square miles*

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	49800	53100	58600	61900	60400	66000	71400	76300	81900
Avg. Daily VMT <sub>(1000s)</sub>	663	846	1137	1220	1278	1511	1842	2157	2485

Table D-50

***Salton Sea Air Basin******Surface Area = 6304 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	230100	270400	354200	422200	471600	572800	669500	766800	883900
Avg. Daily VMT <sub>(1000s)</sub>	5232	7060	11284	13002	11392	12677	14181	15672	17480

Table D-51

***Imperial County******Surface Area = 4174 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	92500	98600	110100	136200	146100	182500	217500	252000	294200
Avg. Daily VMT <sub>(1000s)</sub>	2289	2695	3800	4019	4090	4725	5490	6231	7064

Table D-52

***Riverside County******Surface Area = 2129 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	137600	171800	244100	286000	325500	390300	452000	514800	589700
Avg. Daily VMT <sub>(1000s)</sub>	2943	4365	7484	8983	7302	7952	8691	9441	10416

Table D-53

Portions of Riverside County lie within the Mojave Desert and South Coast Air Basins.

***San Diego Air Basin and County******Surface Area = 4200 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	1873300	2109300	2504900	2615200	2830100	3149900	3388400	3591300	3863500
Avg. Daily VMT <sub>(1000s)</sub>	31707	43517	63591	67943	73909	82660	87481	93886	97542

Table D-54

## **San Francisco Bay Area Air Basin**

**Surface Area = 5340 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	5095400	5473900	5874400	6182500	6639400	7180000	7544800	7779600	8088700
Avg. Daily VMT <sub>(1000s)</sub>	90066	109789	133990	144854	159271	172581	193300	202212	213900

Table D-55

## **Alameda County**

**Surface Area = 738 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	1109500	1196000	1276100	1335100	1452000	1580200	1671200	1735800	1811800
Avg. Daily VMT <sub>(1000s)</sub>	19704	24193	28991	29721	32844	33918	40723	42306	44378

Table D-56

## **Contra Costa County**

**Surface Area = 720 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	658500	710900	806300	872800	954100	1021400	1071400	1108100	1152900
Avg. Daily VMT <sub>(1000s)</sub>	12175	15390	19335	21371	23780	26978	29988	32063	34603

Table D-57

## **Marin County**

**Surface Area = 520 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	222700	220200	229900	238400	247500	257600	263500	267300	273800
Avg. Daily VMT <sub>(1000s)</sub>	3714	4521	5620	6028	6652	7690	7857	8045	8374

Table D-58

## **Napa County**

**Surface Area = 754 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	99300	102900	111000	117300	125200	135700	143900	150500	158400
Avg. Daily VMT <sub>(1000s)</sub>	1479	1739	2184	2693	3000	3575	3887	4154	4453

Table D-59

## **San Francisco County**

**Surface Area = 47 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	680500	727500	723200	739900	780800	793500	787500	765900	755800
Avg. Daily VMT <sub>(1000s)</sub>	8350	10041	11687	11939	12661	12607	13867	14194	14605

Table D-60

## **San Mateo County**

**Surface Area = 449 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	588100	617300	648200	675900	710300	765800	794600	809100	834500
Avg. Daily VMT <sub>(1000s)</sub>	12253	14516	17965	20271	21677	23538	25136	25912	27234

Table D-61

## **Santa Clara County**

**Surface Area = 1291 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	1300200	1410500	1495300	1573500	1692000	1867400	1987800	2063000	2163000
Avg. Daily VMT <sub>(1000s)</sub>	24779	29689	35537	38834	43103	46770	52405	53915	56104

Table D-62

## **Solano County**

**Surface Area = 318 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	173400	197300	244200	258400	274000	307800	336500	361200	387800
Avg. Daily VMT <sub>(1000s)</sub>	3332	4282	5656	5725	6469	7543	8429	9937	11656

Table D-63

A portion of Solano County lies within the Sacramento Valley Air Basin.

## **Sonoma County**

**Surface Area = 504 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	263200	291300	340200	371200	403500	450600	488400	518700	550700
Avg. Daily VMT <sub>(1000s)</sub>	4280	5418	7015	8272	9085	9962	11008	11686	12493

Table D-64

A portion of Sonoma County lies within the North Coast Air Basin.

***San Joaquin Valley Air Basin******Surface Area = 23490 square miles***

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	1979800	2275800	2645200	2972600	3210800	3666300	4090900	4492900	4959900
Avg. Daily VMT <sub>(1000s)</sub>	32884	42075	60357	71772	81055	94209	107741	122270	135618

Table D-65

**Fresno County****Surface Area = 5963 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	517400	582800	670200	756000	804500	893300	970900	1043100	1134600
Avg. Daily VMT <sub>(1000s)</sub>	8036	10288	14149	16980	18920	21821	24732	27856	30471

Table D-66

**Kern County****Surface Area = 4355 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	323500	377500	436600	503600	553000	640600	723900	807800	904100
Avg. Daily VMT <sub>(1000s)</sub>	6239	8024	11219	12695	14819	17533	20632	24212	27631

Table D-67

A portion of Kern County lies within the Mojave Desert Air Basin.

**Kings County****Surface Area = 1391 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	74200	83900	101900	115900	130200	149600	165300	180800	198700
Avg. Daily VMT <sub>(1000s)</sub>	980	1249	1828	2887	3114	3545	3885	4260	4632

Table D-68

**Madera County****Surface Area = 2136 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	63900	74800	88500	109900	126600	152600	178900	203000	229200
Avg. Daily VMT <sub>(1000s)</sub>	1562	1957	2512	2819	3553	4540	5442	6595	7386

Table D-69

**Merced County****Surface Area = 1929 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	135500	157000	179400	199000	210500	239900	266700	292400	322700
Avg. Daily VMT <sub>(1000s)</sub>	2511	2963	4849	5640	6331	7152	8365	9605	10809

Table D-70

**San Joaquin County****Surface Area = 1399 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	350200	417200	481900	522100	567000	645600	727800	803400	887600
Avg. Daily VMT <sub>(1000s)</sub>	5748	7691	10881	13190	14866	17052	19318	21587	23577

Table D-71

**Stanislaus County****Surface Area = 1494 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	267700	302000	373600	415300	449800	522700	587600	646800	712100
Avg. Daily VMT <sub>(1000s)</sub>	3784	4823	8291	9585	10549	11992	13392	14730	16282

Table D-72

**Tulare County****Surface Area = 4824 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	247400	280600	313100	350800	369200	422000	469800	515600	570900
Avg. Daily VMT <sub>(1000s)</sub>	4024	5080	6628	7976	8903	10574	11975	13425	14830

Table D-73

## **South Central Coast Air Basin**

**Surface Area = 7887 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	988800	1119300	1255900	1319000	1405100	1540000	1668200	1796200	1950800
Avg. Daily VMT <sub>(1000s)</sub>	13928	19051	26992	28218	30885	33432	35736	38009	40320

Table D-74

### **San Luis Obispo County**

**Surface Area = 3304 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	156600	184200	217800	230200	247700	287000	323100	357000	390900
Avg. Daily VMT <sub>(1000s)</sub>	2649	3735	5200	5418	5974	6668	7533	8131	8743

Table D-75

### **Santa Barbara County**

**Surface Area = 2737 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	300000	338200	369000	383700	400700	434400	467700	505200	552700
Avg. Daily VMT <sub>(1000s)</sub>	4819	6496	9216	9004	9585	10233	10736	11250	11655

Table D-76

### **Ventura County**

**Surface Area = 1845 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	532200	596900	669100	705100	756700	818600	877400	934000	1007200
Avg. Daily VMT <sub>(1000s)</sub>	6460	8820	12576	13796	15326	16531	17467	18628	19922

Table D-77

## **South Coast Air Basin**

**Surface Area = 6480 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	10604600	11698000	13083500	13744900	14654200	15932600	16946000	17861700	19121800
Avg. Daily VMT <sub>(1000s)</sub>	158732	221550	275902	290888	317873	337083	358938	381397	406622

Table D-78

### **Los Angeles County**

**Surface Area = 2538 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	7402800	8030400	8629000	8839000	9260200	9849800	10272200	10639000	11221000
Avg. Daily VMT <sub>(1000s)</sub>	111447	152496	178897	181009	190484	194908	202547	213854	225490

A portion of Los Angeles County lies within the Mojave Desert Air Basin.

### **Orange County**

**Surface Area = 789 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	1944800	2166300	2412000	2604500	2854600	3099700	3266700	3384300	3541700
Avg. Daily VMT <sub>(1000s)</sub>	28211	41177	53543	58532	65356	70251	74629	78690	83767

Table D-80

### **Riverside County**

**Surface Area = 2024 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	521700	651500	925600	1070600	1203600	1443300	1671600	1903700	2180800
Avg. Daily VMT <sub>(1000s)</sub>	8452	12671	22304	26846	34479	40563	46039	50025	54848

Portions of Riverside County lie within the Mojave Desert and Salton Sea Air Basins.

### **San Bernardino County**

**Surface Area = 1129 square miles**

Parameter	1980	1985	1990	1995	2000	2005	2010	2015	2020
Population	735300	849800	1116900	1230800	1335800	1539800	1735500	1934700	2178300
Avg. Daily VMT <sub>(1000s)</sub>	10622	15206	21158	24501	27554	31361	35723	38828	42517

A portion of San Bernardino County lies within the Mojave Desert Air Basin.

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